

2014 Appalachian Energy Center Workshop Series

Appalachian Energy Center is pleased to announce **5 FULL Scholarships to high school teachers in NC** for the following 2 workshops; each workshop provides **1.0 License Renewal Credit**:

[1½ Day Photovoltaic System Fundamentals Workshop](#)

Friday, June 13 (9am-4pm) & Sat., June 14 (9am-1pm)

This 1 1/2 day workshop will introduce participants to the basic concepts, tools, materials and construction and engineering techniques needed to design and construct systems that convert solar resources into electricity with photovoltaic (PV) technologies. Participants will learn how to assess the solar resources available at a particular site and how to use that information to estimate the energy production and economics of a PV system. Participants will learn how to design and construct safe and reliable code compliant photovoltaic systems.

The workshop will address contemporary trends, products and policies and incentives. It will include lectures and power point presentations, site assessment and system design and construction activities, computer modeling, and exploration of numerous systems we have set up around the Department of Technology & Environmental Design at Appalachian State University.

[1½ Day Solar Thermal Water Heating Fundamentals Workshop](#)

Friday, July 11 (9am-4pm) & Sat., July 12 (9am-1pm)

Solar thermal is an attractive solar technology that can offset a significant fraction of cost and carbon emissions associated with domestic hot water production and space heating. The workshop will cover all aspects of residential solar water heating, including system design, sizing, component selection, installation, and performance verification. Participants will learn about the typical costs, economics, and maintenance involved with a solar thermal system.

The workshop will include some hands-on components and systems on campus will be available for demonstration.

HOW? **The first 10 high school teachers to email Janet Miller @ millerjm1@appstate.edu will qualify for the scholarship and attend for FREE! (5 teachers per workshop)**

Click on the workshop title for more information or visit energy.appstate.edu

- *Gain introductory knowledge and hands-on experience with renewable energy technologies*
- *Become familiar with resources and organizations that provide continually updated information*
- *Stimulate the interest necessary for schools and administrators to actively start instructional programs in solar technologies*

